

Date: Mon, 8 Nov 93 04:30:18 PST  
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>  
Errors-To: Ham-Digital-Errors@UCSD.Edu  
Reply-To: Ham-Digital@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Digital Digest V93 #103  
To: Ham-Digital

Ham-Digital Digest                      Mon, 8 Nov 93                      Volume 93 : Issue 103

Today's Topics:

          Archimedes Packet Software needed  
                ftp access by packet  
                G.P. DOCS again !!!  
                Help on KISS mode  
                Kiss AX25 driver for Unix ???  
                KISS V7 binary  
                Need chip numbers  
          NEW PACKET - TNC QUESTIONS (2 msgs)  
                packet FAQ's?  
          Packet Program Recommendations for ATT UNIX 3B2/400  
                PACKET TX "RECIEVER READY"  
                TCP/IP and Linux  
                Viruses and Packet radio

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>  
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: Fri, 05 Nov 1993 12:09  
From: ukma!news2.uunet.ca!math.ohio-state.edu!howland.reston.ans.net!xlink.net!  
rz.uni-karlsruhe.de!ibm3090.rz.uni-karlsruhe.de!UJ89@seismo.css.gov  
Subject: Archimedes Packet Software needed  
To: ham-digital@ucsd.edu

HI OUT THERE  
I HAVE A TNC2S AND AN ARCHIMEDES AND NO PACKET SOFTWARE  
AT THE MOMENT I USE TAPR IN CONJUNCTION WITH A VT100 EMU  
NOT VERY COMFORTABLE. PLEASE MAIL ME UNDER

UJ89@IBM3090.RZ.UNI-KARLSRUHE.D400  
73 DE DG5IAE

Date: 5 Nov 93 18:09:33 GMT  
From: hellgate.utah.edu!caen!math.ohio-state.edu!cis.ohio-state.edu!  
news.sei.cmu.edu!nntp.club.cc.cmu.edu!pitt.edu!gatech!howland.reston.ans.net!  
xlink.net!scsing.switch.ch!@dog.ee.lbl.gov  
Subject: ftp access by packet  
To: ham-digital@ucsd.edu

In article PMARANDA@vm1.ulaval.ca, PMARANDA@vm1.ulaval.ca (Roger-Daniel Laberge) writes:

> Is there any way to get access to Internet and FTP sites thru packet radio?

Technically yes, but it's illegal (3rd party stuff)

— — —

73 de Andy SP5WCA

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/-----+-----+-----+-----\
I Andrzej K. Brandt I SP5WCA I andy@mimuw.edu.pl I sp5wca@sp5pbe.wa.pol.eu I
\-----+-----+-----+-----/

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Date: Fri, 5 Nov 93 09:02:12 GMT  
From: ukma!widener!hela.iti.org!usc!math.ohio-state.edu!howland.reston.ans.net!  
pipex!uknet!uos-ee!ee.surrey.ac.uk!M.Willis@seismo.css.gov  
Subject: G.P. DOCS again !!!  
To: ham-digital@ucsd.edu

English documentation is shipped routinely with GP version 1.5. Perhaps you have a later version and no translation has been done yet. You should have got a complete set of files, not just the program on the distribution disk.

Most stuff is available for GP via FTP from ucsd.edu I seem to remember. There is also a German BBS .

ftp.inf.tu-dresden.de

But this is quite slow to access. It has all sorts of stuff on it.

Mike

-----  
Date: 05 Nov 93 01:38:17 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!pipex!sunic!  
news.funet.fi!nntp.hut.fi!nntp.hut.fi!Tomi.Manninen@network.ucsd.edu  
Subject: Help on KISS mode  
To: ham-digital@ucsd.edu

In article <60.1356.5731.0N189280@canrem.com> steve.jones@canrem.com (Steve Jones) writes:

>The 2 commands you need are persistance and slottime. If using NOS the  
>persistance command is 'param <interface> 2 255'. This sets your TNC to  
>the highest persistance (very unfriendly to other users). Consult your  
>manual for a discussion of persistance and slottime.

\_Very unfriendly!\_ Persistence of about 64 would be more appropriate.

>things are dead slow. I've noticed on the MFJ's that the sta and con  
>led's flash every so often like the tnc has been reset. Looks like the  
>tnc is resetting itself and wiping out my parameters. All the MFJ's I've  
>have do the same thing. Any ideas??

I've seen this. My TNC is a DK9SJ TNC-2S (tnc-2 clone) with TAPR  
1.1.8a (or was it 1.1.8) firmware and it did just what you explained.  
I finally changed the eprom to JKISS (binaries come with BPQ-node  
software) and since then it has worked just fine. Since I only use  
NOS, I don't need any other modes than KISS.

--  
---Tomi Manninen / Tomi.Manninen@hut.fi / OH2BNS @ OH2RBI.FIN.EU---

-----  
Date: Sat, 6 Nov 1993 20:29:28 GMT  
From: Germany.EU.net!mcsun!sun4n1!hacktic!utopia.hacktic.nl!globv1.hacktic.nl!  
peter@uunet.uu.net  
Subject: Kiss AX25 driver for Unix ???  
To: ham-digital@ucsd.edu

whitemp@cnsvox.uwec.edu writes:

>Has anyone added a ax25 driver (or kiss) to the kernel of a Unix box?

Fred van Kempen, is writing AX.25 drivers for the Linux kernel. This is what he wrote in the HAMS channel on the Linux mailing list:

--- cut here ---  
Hi All,

Hey, I didn't even know about the very existence of this channel...

Anyway. Christophe said:

>Hi, i guess the subject says it all. I heard some rumours about KISS being  
>supported, but could not find info anywhere.

Correct. I indeed added a KISS driver (it talked to every TNC-2 I could find, including my KAM on both ports), and am slowly implementing an AX.25 socket layer. I already wrote some simple clients and servers for this (AXterm, AXbeacon, AXtermd, ...) and they react fine to incoming AX frames.

Of course, the layer will also run on loopback only (AXterm mycall :-)  
for testing and gateway looping. I am considering porting the F6FBB  
BBS program to Linux, thus giving us a nice, wellknown BBS as well.

>Is there any support for AX25 connected mode? I guess UI would be enough  
>to get current TCPIP (44.x.y.z) going, but a "complete" implementation  
>would be much nicer.

Yes, connmode is supported. I got the

```
A->B SABM
B->A UA
....
A->B DISC || B->A DISC
B->A UA || A->B UA
```

sequence running now, but I am still waiting for the AX.25 2.0 specs to arrive here (they were delivered to my US home address yesterday, it'll take another couple of days before they arrive here in NL) so I can check out which kind of exceptions I should be able to handle in the receiver state is not what the sender thinks it is. Currently, I simply send a DM for any packet not being an SABM if we are not in CONN state...

UI frames are done, but I want all protocol stacking to be in an external process (i.e. the IP-over-AX bridge, the AX-over-IP bridge, etc.) so the kernel layer is as small as possible.

Fred

Fred N. van Kempen Certified Linux/PRO Engineer :-)  
MicroWalt Corporation Software Development waltje@uwalt.nl.mugnet.org  
Hoefbladhof 27, 2215DV V00RHOUT, The Netherlands Tel (+31) 2522-30205

--- ereh tuc ---

Linux, the choice of a GNU generation.

Date: 7 Nov 93 06:39:15 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: KISS V7 binary  
To: ham-digital@ucsd.edu

Could somebody assemble the KISS V7 ROM and upload it  
to UCSD.EDU for us who don't have a Z-80 Cross Assembler?  
The \*.MAC source code is in [ucsd.edu/hamradio/packet/tcpip/incoming/kissv7.zip](http://ucsd.edu/hamradio/packet/tcpip/incoming/kissv7.zip)

73 Costas <kkrallis@leon.nrcps.ariadne-t.gr>

```
| Dr. K. Krallis, SV1XV * Research Engineer
| Metallurgy Lab., National Technical University of Athens
| -----
| Internet: kkrallis@leon.nrcps.ariadne-t.gr [143.233.2.1]
| Packet radio: sv1xv@sv1uy.ath.grc.eu
| AMPRnet: sv1xv@sv1xv.ampr.org [44.154.1.11]
| Snail Mail: P.O.BOX 3066, GR-10210 Athens, GREECE
```

Date: Fri, 05 Nov 93 16:12:14 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!  
library.ucla.edu!csulb.edu!csus.edu!netcom.com!netcomsv!bongo!skyld!  
janguis@network.ucsd.edu  
Subject: Need chip numbers  
To: ham-digital@ucsd.edu

In article <2bcdd1\$hia@juniper.almaden.ibm.com> enge@enge.almaden.ibm.com writes:

> Need some chip numbers to do some repairs. The chips are U7, U8, U9,  
> and U10 on a DRSI PCPA-2 (two VHF port) card and U9 and U10 on a TAPR  
> TNC-2.

As he walks over to the table and picks up some handy hardware laying about.

DRSI Type 2

U7 MC74HC04AN  
U8 TCM3105JL  
U9 MC74HC14AN  
U10 MC74HC14AN

TAPR TNC-2 (This is from the MFJ 1270b which claims to be a TNC-2 clone  
and the "portions of the artwork" etc...)

U9 CD74HC14E  
U10 CD74HCT04AE

As Brian would say, "Your milage may vary"

Hope this helps

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA	"It is difficult to imagine our
Internet: jangus@skyld.tele.com	universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749	potent god. I see it more as a
Phone: 1 (310) 324-6080	badly run corporation."

-----  
Date: Fri, 5 Nov 1993 14:29:23 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!udel!gvls1!  
rossi@network.ucsd.edu  
Subject: NEW PACKET - TNC QUESTIONS  
To: ham-digital@ucsd.edu

I would like to try out packet this fall, however I have a few question...

1. How useful is most packet operation with a simple TNC and dumb terminal?  
All of the TNC ads seem to assume you will be using their TNC with a PC/MAC/etc

and they emphasize all of the wonderful features you get. How much functionality is lost by just using a dumb terminal? I currently do \*not\* have a PC and I have no immediate plans to get one. My "dumb" terminal has some intelligence but would require some custom software to make use of it.

2. What would be a good TNC to use with a dumb terminal? These multi-mode jobs sound nice but it seems to me that most of the features would go to waste since they could not be used with a dumb terminal.

3. What should I be looking for in a TNC? I want to avoid buying something either used or new only to find a few weeks later that it is lacking some highly desired feature. This is especially true for an older, used TNC.

I think (?) I am looking for something suitable for general 2 meter packet operation, and possibly some HF operation (RTTY, etc) and just take things from there.

I recently received Kantronics, AEA, and MFJ catalogs, however, one problem I am running into is I see various used [older] TNCs for sale and I have no idea how these older models and/or models with older software, compare to the current models since the catalogs only describe the latest models. Actually I find the Kantronics catalog to be a joke. It contains very little technical information.

Best I can tell, MFJ seems to have the best prices for similar featured models but I have never been all that impressed with stuff from MFJ. How are their TNCs?

Please respond via e-mail.

=====

Pete Rossi - WA3NNA

rossi@vfl.paramax.COM

Unisys Corporation - Government Systems Group  
Valley Forge Engineering Center - Paoli, Pennsylvania

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Date: Fri, 5 Nov 1993 15:01:00 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!udel!gvls1!  
rossi@network.ucsd.edu  
Subject: NEW PACKET - TNC QUESTIONS  
To: ham-digital@ucsd.edu

I would like to try out packet this fall, however I have a few question...

1. How useful is most packet operation with a simple TNC and dumb terminal?

All of the TNC ads seem to assume you will be using their TNC with a PC/MAC/etc and they emphasize all of the wonderful features you get. How much functionality is lost by just using a dumb terminal? I currently do *\*not\** have a PC and I have no immediate plans to get one. My "dumb" terminal has some intelligence which would require some custom software to make use of.

2. What would be a good TNC to use with a dumb terminal? These multi-mode jobs sound nice but it seems to me that most of the features would go to waste since they could not be used with a dumb terminal.

3. What should I be looking for in a TNC? I want to avoid buying something either used or new that I will find a few weeks later that it is lacking some highly desired feature. This is especially true for an older, used TNC.

I think (?) I am looking for something suitable for general 2 meter packet operation, and possibly a little HF operation (RTTY, etc) and just take things from there. Eventually some satellite/Mir/Shuttle stuff.

I recently received Kantronics, AEA, and MFJ catalogs, however, one problem I am running into is I see various used [older] TNCs for sale and I have no idea how these older models and/or models with older software, compare to the current models since the catalogs only describe the latest models. Actually I find the Kantronics catalog to be a joke. It contains very little technical information.

Best I can tell, MFJ seems to have the best prices for similar featured models but I have never been all that impressed with stuff from MFJ. How are their TNCs?

Please respond via e-mail.

Pete Rossi - WA3NNA                      rossi@vfl.paramax.COM

Unisys Corporation - Government Systems Group  
Valley Forge Engineering Center - Paoli, Pennsylvania

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Date: 4 Nov 93 16:31:30 MDT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!  
cs.utexas.edu!utah-morgan!hellgate.utah.edu!cc.usu.edu!symantec.com!  
RABALAIS@network.ucsd.edu  
Subject: packet FAQ's?  
To: ham-digital@ucsd.edu

Does anyone out there have a Packet FAQ List? I need it for a packet



presentation I'll be giving soon, Thanks.

73,  
NOPRQ  
rabalais@symantec.com

-----  
Date: Thu, 4 Nov 93 20:15:59 EST  
From: news.centerline.com!noc.near.net!news.delphi.com!usenet@uunet.uu.net  
Subject: Packet Program Recommendations for ATT UNIX 3B2/400  
To: ham-digital@ucsd.edu

Does anyone have experience with Packet/Ham Radio in UNIX SYS V Specifically on the ATT 3B2/400.

I have a NOS "netserve" but it core dumps and won't run and also have a version of k5jb but can't get it to receive with my PK-88 TNC (Sends ok). Any other C Software (Ported) Programs available???

TGOODIN @ DELPHI.COM Internet  
or  
KD4OFO @ W4NJA.#WKY.USA.NA Packet  
Tim Goodin  
73's

-----  
Date: Thu, 4 Nov 1993 15:33:19 EST  
From: news.centerline.com!noc.near.net!saturn.caps.maine.edu!maine.maine.edu!suseea@uunet.uu.net  
Subject: PACKET TX "RECIEVER READY"  
To: ham-digital@ucsd.edu

I am asking this question in an attempt to figure out what is going on at a local digipeater. This digipeater used to be used for packet work, ie: log on to board..get elements etc. But now this is nearly impossible due to the flood of reciever ready transmissions bombarding the digipeater. What is the purpose of this reciever ready stuff??? What ever it is has destroyed the use of the digipeater for packet. Is this something that could be resolved???

I am very ignorant of this sort of thing but it drives my father nuts and I thought maybe some of you out there could clue me in.

Thanx  
Alan

Date: Fri, 5 Nov 1993 00:14:00 GMT  
From: mulvey!rich@uunet.uu.net  
Subject: TCP/IP and Linux  
To: ham-digital@ucsd.edu

Is there anyone out there running some version of NOS on a Linux machine?  
If so, I'd appreciate getting some info on what version you're using,  
where you got it, etc.

Thanks,  
- Rich

--  
Rich Mulvey                                      Amateur Radio: N2VDS                                      Rochester, NY  
rich@mulvey.com                                      "Ignorance should be painful."

-----  
Date: Thu, 04 Nov 93 14:31:32 GMT  
From: netcon!bongo!skyld!jangus@locus.ucla.edu  
Subject: Viruses and Packet radio  
To: ham-digital@ucsd.edu

In article <CFwp5C.9xA@cbfsb.cb.att.com> fvdbord@cbnewsg.cb.att.com writes:

> If I use Baycom for Packet radio and I set "remote off" is there  
> any chance that anyone can install a virus on my PC from a remote  
> system? Would it be possible if I set "remote on" ?

//remote off = no external control.

//remote on = questionable access from "friends"

Additionally, the "real" source of virus contamination is from uploaded  
software. (i.e., binary file transfers) but this assumes that the file  
your retrieve is contaminated. It doesn't pick anything up in transfer.

73 es GM from Jeff.

PS, who many years ago would fall victim to "//color 0 0" on digicom.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA    | "It is difficult to imagine our  
Internet: jangus@skyld.tele.com            | universe run by a single omni-

US Mail: PO Box 4425 Carson, CA 90749 | potent god. I see it more as a  
Phone: 1 (310) 324-6080 | badly run corporation."

-----  
Date: Thu, 4 Nov 1993 04:48:26 GMT  
From: ukma!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!math.ohio-state.edu!  
cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!mark@seismo.css.gov  
To: ham-digital@ucsd.edu

References <adlerCFLqqC.CyK@netcom.com>, <CFpvsC.Fwz@ve6mgs.ampr.ab.ca>,  
<2b3mtl\$hug@TAMUTS.TAMU.EDU>c  
Subject : Re: info on cellular mods - illegal? MAYBE!

willis@cs.tamu.edu (Willis Marti) writes:

>Correct (IMNSHO). All the references refer to \*devices\* or advertisements  
>for \*devices\*, not documents.

True, but the courts (the interpreters of the law) may view a modification of  
a radio to receive Cellular as a form of advertising for a device (ie, the sale  
of a diode to institute the mod). But since Amateurs make no 'profit', I guess  
the 'commerce' angle they have in the act makes it impossible for them to  
prosecute a person for distributing information about modifications.

>WHERE does it say that?  
>>> (c) places in any newspaper, magazine, handbill, or other publication  
>>>any advertisement of--  
>>> (i) any electronic, mechanical, or other device ...  
>>> (ii) any other electronic, mechanical, or other device, ...  
> [which is advertised to intercept cellular]  
>No doubt this law is intending to be far reaching (instead of just fixing the  
>alleged problem by encryption), but nothing I've read says you can't provide  
>information or advertise information, as long as you don't advertise the  
>devices themselves.

All mods I know of require 'devices' to be used to alter the radio, minus  
the keyboard mod'd radios. Maybe I may be stretching it by assuming that  
if you mention a 'diode' in a mod description, you are advertising the  
diode required to make the radio receive Cellular ... I can see it now,  
'glass bead' = diode, just as '\$' is often referred to as 'resistors' or  
'capacitors' as in 'this new radio cost me 305 capacitors' :-)

Ciao -- Mark

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End of Ham-Digital Digest V93 #103

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